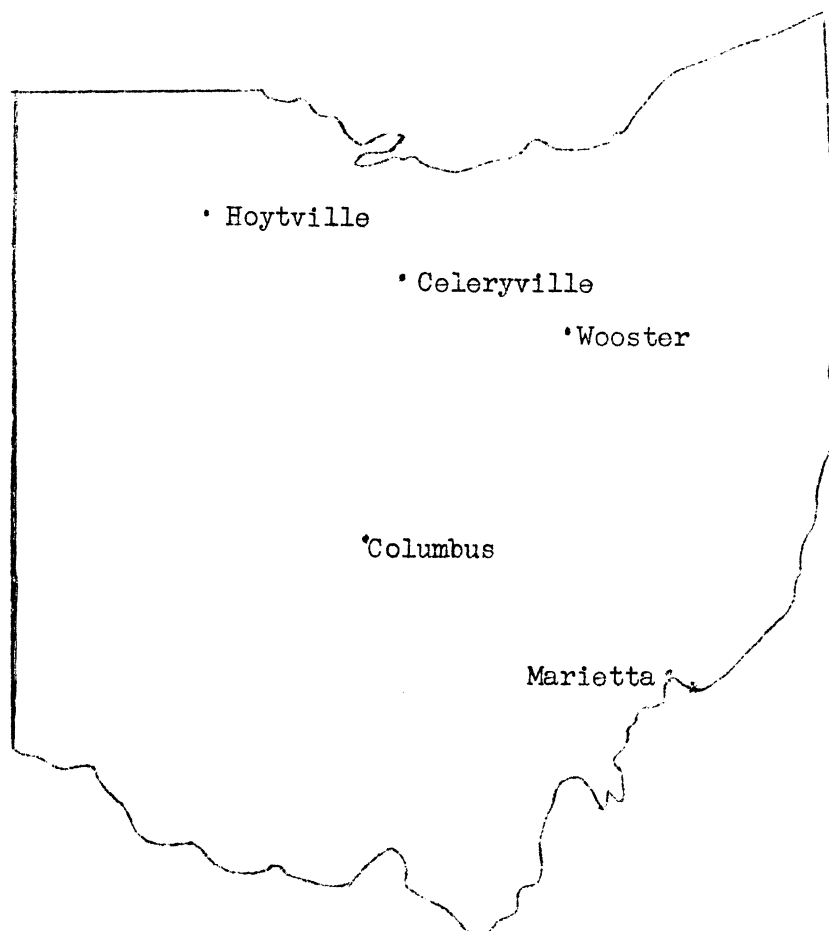


March 1955

OHIO
VEGETABLE VARIETY TRIAL SUMMARY
1954

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Walter N. Brown and E. K. Alban

The Ohio Agricultural Experiment Station
Department of Horticulture
Wooster, Ohio

CONTENTS

	Page
Sources of Seed	1-11
Introduction	111
BROCCOLI	
Columbus	1
CABBAGE	
Columbus	2
Marietta	3
CAULIFLOWER	
Marietta	4
CELERY	
Celeryville, Early.	5
Celeryville, Late	6
SWEET CORN	
Columbus	7-11
Marietta	12-13
Northwestern	14-16
HEAD LETTUCE	
Columbus	17
TOMATOES	
Columbus, Staked	18-21
Marietta, Staked	22-26
Northwestern, Field	27-28

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Sources of Seed for 1954 Vegetable Variety Trials

<u>Source</u>	<u>Address</u>
Abbott and Cobb	Abbott and Cobb, 4744-46 Frankford Avenue, Philadelphia Pennsylvania
Alexander	L. J. Alexander, Botany Department, Ohio Agricultural Experiment Station, Wooster, Ohio
Associated	Associated Seed Growers, New Haven, Connecticut
Ball	George J. Ball, Inc., West Chicago, Illinois
Burpee	W. Atlee Burpee and Company, Philadelphia 32, Pennsylvania
Burrell	D. V. Burrell Seed Growers, Rocky Ford, Colorado
Cent. Exp. Farm, Ottawa	Central Experimental Farm, Ottawa, Ontario, Canada
Corneli	Corneli Seed Company, 101 Chouteau Avenue, St. Louis 2 Missouri
Cornell	Department of Vegetable Crops, Cornell University, Ithaca, New York
Eastern States Farm. Exch.	Eastern States Farmers Exchange, Springfield, Massachusetts
Ferry-Morse	Ferry-Morse Seed Company, P. O. Box 778, Detroit 31, Michigan
Gill Brothers	Gill Brothers Seed Company, Montavilla Station, Portland 16, Oregon
Grand Rapids Growers	Grand Rapids Growers, Inc., Grand Rapids, Michigan
Gunson	L. P. Gunson Seed Company, Rochester, New York
Harris	Joseph Harris Company, Inc., Moreton Farm, Rochester 11, New York
Heinz	H. J. Heinz Company, Bowling Green, Ohio
Hoffman	I. C. Hoffman, Department of Horticulture, Ohio Agricultural Experiment Station, Wooster, Ohio
Holmes	Holmes Seed Company, Canton 2, Ohio
Huelssen	W. A. Huelssen, Department of Horticulture, University of Illinois, Urbana, Illinois
Livingston	Livingston Seed Company, 840 Kinnear Road, Columbus, Ohio
Michael-Leonard	Michael-Leonard Company, P.O.Box 1048, Sioux City 2, Iowa
Midwest	Midwest Seed Growers, 505 Walnut Street, Kansas City 6, Missouri
Mississippi	J. A. Campbell, Mississippi Agricultural Experiment Station, State College, Mississippi
Northrup-King	Northrup-King and Company, Minneapolis 13, Minnesota
Long Island Caulif. Assoc.	Long Island Cauliflower Association, Riverhead, Long Island, New York
O.A.E.S.	Department of Horticulture, Ohio Agricultural Experiment Station, Wooster, Ohio
O.S.U.	Department of Horticulture, The Ohio State University, Columbus 10, Ohio
Quaker Hill Farm	K. C. Livermore, Honeoye Falls, New York
Quaker Maid	Quaker Maid Company, Bloomdale, Ohio
Purdue	Department of Horticulture, Purdue University Agricultural Experiment Station, Lafayette, Indiana
Robbins	W. A. Robbins, Campbell Soup Company, Box 215, West Chicago, Illinois
Robson	Robson Seed Farms, Hall, New York
Stokes	Francis C. Stokes Company, Vincentown, New Jersey

1954 Vegetable Variety Trial Seed Sources (Cont'd)

Stokes Seeds, Ltd	Stokes Seeds, Ltd, St. Catherine's, Ontario, Canada
Univ. of Ill.	Department of Horticulture, University of Illinois Agricultural Experiment Station, Urbana, Illinois
Vaughan's	Vaughan's Seed Company, 601-609 West Jackson Boulevard, Chicago 6, Illinois
Wisconsin	Department of Horticulture, University of Wisconsin, Madison 6, Wisconsin
Woodruff	F. H. Woodruff and Sons, Box 1015, Toledo 1, Ohio

OHIO

VEGETABLE VARIETY TRIAL SUMMARY

1954

Walter N. Brown and E. K. Alban

INTRODUCTION

The 1954 variety trials included seven kinds of vegetables -- broccoli, cabbage, cauliflower, celery, sweet corn, head lettuce and tomatoes. These trials were conducted at four different locations in the state:

- Celeryville -- Muck Crops Substation (Willard, Ohio) -- muck soil, crops irrigated.
- Columbus -- University Farms -- Brookston silty clay loam soil, crops irrigated.
- Hoytville -- Northwestern Substation -- Hoytville clay loam soil, recently acquired general farm land of low fertility, crops not irrigated.
- Marietta -- Vegetable Crops Substation -- Chenango loam to a Chenango fine sandy loam soil, crops irrigated, one of the earliest producing areas in the state.

In addition to yield records, performance data were obtained on such items as plant uniformity, insect and disease resistance, plant and fruit characteristics. Particular attention was given to those characteristics of the marketable portion of each crop which would differentiate one variety or strain from another. These characteristics were recorded in as much detail as time and facilities permitted. When possible, precise quantitative measurements were used, otherwise these characteristics were rated on a relative scale of 1 to 5 with 5 indicating the most desirable trait and 1 indicating the least desirable. However, in the case of disease ratings, 5 indicates heavy infection while 1 indicates slight or no infection. Exceptions are explained in the particular tables in which they occur.

In evaluating these data, the limitations on the size of plots, number of replications and fertility program used should be considered. This information is on the summary page for each particular crop and test with the exception of the sweet corn tests. This information for sweet corn is as follows:

Seed in each test was planted by hand jabber at the rate of four kernels per hill. (Hills 18" in the row with 36" between rows.) Plants thinned to two per hill at the 4-6 leaf stage. Plots consisted of 21 hills per replication. Early Stewart's disease counts were made prior to thinning, late counts made at harvest maturity. The following information varied and is given for each area of test:

- Columbus -- Planted May 27 in five replications. Fertilizer 1000 lbs/A of 5-10-10 applied broadcast plus one side dressing of 100 lbs/A of ammonium nitrate.
- Hoytville - Planted June 7 in four replications. Fertilizer same as for Columbus.
- Marietta -- Planted April 30 in six replications. Fertilizer 300 lbs/A of ammonium nitrate plowed down, 1000 lbs/A 3-9-18 applied broadcast and one side dressing of 100 lbs/A of ammonium nitrate.

COMMENTS:
Plants set April 29. Spacing 18" in rows, 36" between rows. Plot size 2 rows of 26 plants each, replicated 5 times. Fertility 1000 lbs/Acre 5-10-10 drilled in prior to planting, one side dressing of ammonium nitrate 100 lbs/Acre. Irrigated. First harvest June 14.

CABBAGE VARIETIES (1954)
Columbus, Ohio

W.N.B. VC 355

VARIETY and Lot Number	Source	Number of Days to First Harvest	Yield per Acre	Average Head Weight	Firm Heads Harvested	Polar Diameter	Equatorial Diameter	Shape Index, i.e., Polar/Equatorial	Shape of Head	Length of Core	Plant Diameter	Height of Stem	Uniformity (1-5)	General Rating (1-5)	Remarks
			tons	lbs	%	in.	in.			in.	in.				
1. Canadian Acre	0-52-139	Gen. Exp Farm, Ottawa	59	4.98	1.33	66.9	4.83	4.75	1.016	Globe	2.43	18.8	S	5	3 Excellent uniformity, solid round heads.
2. Canadian Acre	-----	Stokes Seeds, Ltd	59	5.22	1.36	73.6	4.90	4.73	1.035	Globe	2.70	20.0	S	4	3 Solid round heads, small compact.
3. Badger Market	-----	Wisc Cabbage Seed Co	68	9.66	2.06	88.4	5.68	5.40	1.051	Globe	2.48	22.6	S	5	4 Extremely uniform, very solid heads.
4. Golden Acre	-----	Joseph Harris	62	10.94	2.28	88.6	6.06	5.80	1.044	Globe	3.88	22.3	S	4	4 Heads solid and globe, long core.
5. Golden Acre Resistant	1-14-28	Ferry-Morse	64	11.89	2.26	91.8	5.85	5.50	1.064	Globe	3.38	21.5	S	4	3 Heads slightly pointed.
6. Elite Golden Acre	9-36	F. H. Woodruff	68	11.87	2.40	89.5	6.33	5.83	1.085	Globe	3.40	22.6	S	4	3 Heads slightly pointed, very solid.
7. Early Detroit	9-443	F. H. Woodruff	66	13.97	2.69	94.1	6.70	5.75	1.165	Oval	4.50	23.7	M	3	3 Heads slightly pointed, very solid.
8. Resistant Detroit	33012	Ferry-Morse	70	13.61	2.64	100.0	6.50	5.43	1.197	Oval	3.98	24.3	M	4	3 Heads slightly pointed, long core.
9. Green Acre	32932	Ferry-Morse	68	11.80	2.54	89.5	6.68	5.80	1.151	Oval	4.25	26.5	S-M	2	1 Head shape and maturity variable.
10. Marion Market	11422	Ferry-Morse	80	12.48	2.60	89.8	5.73	5.13	1.116	Oval	3.23	26.9	M	4	3 Heads slightly pointed.
11. Globe	37889	F. H. Woodruff	86	13.45	2.59	91.6	5.58	4.85	1.150	Oval	3.10	24.8	L	2	2 Head shape variable.
12. Resistant Glory	177.1	D. V. Burrell	88	12.50	3.00	78.7	6.15	5.78	1.064	Globe	4.00	25.5	L	4	3 Heads slightly pointed, long core.
13. Marion Market	426031	Ferry-Morse	80	10.93	2.88	71.1	5.78	5.05	1.144	Oval	3.08	24.8	M	3	3 Heads slightly pointed.
14. Bonanza	115509	Ferry-Morse	88	9.96	2.33	83.1	5.43	5.00	1.086	Globe	2.45	25.3	S	3	2 Short core, solid heads, holds well.
15. Allhead Select	13195	Ferry-Morse	90	12.68	2.67	89.1	5.55	6.33	.876	Int'med	3.88	26.0	L	2	2 Shape flattened globe.
16. Keystone Golden Acre Select	3982	Corneli IST @ 5% Level	64	10.16 2.61	2.28	86.6	6.13	5.70	1.175	Globe	3.55	23.9	S-M	4	3 Good internal color and texture.

Comments: Plants set April 20. Spacing 16" in row, 36" between rows. Plot size 32 plants, replicated 5 times. Fertility 1000 lbs/A 5-10-10 drilled. Under irrigation. Extremely high temperatures preceding harvest caused some elongation of core and stem. Area yellows infected but little damage from the disease.

4.40

Variety		Source	No. Days to 50% Harvest	Marketable Yield per Plot		Average Head Weight (lbs)	Curd Color	Remarks
				No.	Wt. (lbs)			
1. Snowball A	24094	Ferry-Morse	58	24.7	64.9	2.63	Slight tinge	Head slightly knobby, begins to loosen at maturity. Slight tendency toward fuzziness. Very uniform.
3. Snowball E	13365	Ferry-Morse	63	25.2	90.3	3.59	White	Head slightly knobby, high-crowned. Snow white--almost as white as #9. Variation in head size.
4. Snowball M	11826	Ferry-Morse	63	27.2	109.3	4.02	Slight tinge	Head slightly knobby, very high-crowned and compact. Maturity and head size uniform.
5. Snowball X	24055	Ferry-Morse	66	22.7	82.9	3.66	Tinged	Head compact but slightly knobby. Good uniformity.
6. Snowball Y	13049	Ferry-Morse	66	19.3	72.8	3.77	Snow white	Head compact, high-crowned, slightly knobby. Maturity and head size uniform.
7. Early Snowball	331	Harris	54	21.2	71.3	3.37	Slight tinge	Earlier than #8. Head slightly knobby, begins to loosen near maturity. Uniform.
8. Super Snowball	345	Harris	56	28.7	76.5	2.67	Tinged	Earlier than #1, not as uniform. Head slightly knobby. Marginal clusters fuzzy.
9. Snow Cap	344	Harris	60	26.3	101.9	3.87	Snow white	Not as uniform as #s 1 and 7. Snow white curd. High-crowned and slightly knobby.
10. Snowball Imperial	339	Harris	63	25.2	89.1	3.54	Snow white	Head high-crowned and compact, very white. Maturity and head size very uniform.
11. Snowdrift	343	Harris	66	24.8	85.1	3.43	Tinged	Head compact, high-crowned but smooth. Good uniformity.
12. Association Challenger	531	Long Island Caulif. Assoc.	63	26.5	104.1	3.93	Tinged	Very uniform maturity. White to light ivory. Slight tendency for curd leaves at margin. Deep, high-crowned head.
13. Imperial Holland Erfurt	310	Long Island Caulif. Assoc.	63	25.3	85.9	3.39	Snow white	Slight variation in maturity and head size. Head compact, high-crowned and smooth.
14. Island Queen	---	Long Island Caulif. Assoc.	62	26.5	105.4	3.98	Slight tinge	Leaves-spreading and difficult to tie. Head high-crowned free from curd leaves.
L. S. D. 5% level				3.5	16.9			

COMMENTS: Plants set April 5. Spacing 18" in row, 36" between rows. Plot size - 30 plants, replicated six times. Fertility - 300 lbs/A ammonium nitrate plowed down, 1000 lbs/A 3-9-18 drilled prior to planting, 1 side dressing of 100 lbs/A ammonium nitrate. Low temperatures early induced some buttoning. High temperatures prior to harvest resulted in some fuzziness.

PERFORMANCE OF CELERY VARIETIES FOR EARLY HARVEST - 1954

Celeryville, Ohio

Walter N. Brown and Warren F. Henderson

W.N.B. VC-055

Variety	Source (Lot Number)	YIELD Large Stalks ¹	Average WEIGHT per Large Stalk	YIELD Small Stalks	YIELD Marketable	Petiole Count at 4" Above Butt	Petiole Length Butt - 1st "node" ³	Petiole Length ⁴ Over-all	Blight Rating ⁵
		lbs.	lbs	lbs	lbs		in.	in.	0 - 4
20. Emerson Pascal	Harris 262	83.0	1.9	3.0	86.0	9.0	9.7	19.9	0.8
18. Summer Pascal 52-70H	Ferry-Morse 02621	79.4	1.8	5.4	84.8	9.9	9.6	22.1	2.9
5.* Sweetheart	Ferry-Morse 31597	78.5	1.9	4.4	83.0	11.4	5.6	15.8	2.3
1. Emerson Pascal	Woodruff 44335	77.8	1.7	4.0	81.8	8.0	8.8	19.9	0.5
15. Summer Pascal	Woodruff 41478	75.5	1.5	4.5	80.0	7.2	8.4	15.6	1.1
9. Summer Pascal	Gunson 0031	74.8	1.6	4.9	79.7	7.2	7.9	16.0	0.9
12.* Cornell 19	Ferry-Morse 33042	74.5	1.5	3.5	78.0	9.6	8.0	17.2	2.0
2. Everglades Pascal (T.B.S.)	Corneli -----	70.4	1.7	6.4	76.8	11.5	7.5	19.0	2.1
7. Summer Pascal (259-3)	Ferry-Morse 00297	69.8	1.5	6.6	76.4	7.2	8.7	17.0	1.7
8. Summer Pascal (Walth.Str.)	Gunson 0031	69.3	1.5	6.2	75.5	7.4	8.2	16.0	0.9
14.* Florida Green Pascal	Associated -----	68.5	1.5	4.4	72.8	8.7	8.0	15.9	0.8
17. Earligreen Grower's	Grand Rapids 580H	67.7	1.4	5.3	73.0	10.8	7.0	18.1	1.0
16.* Fordhook	Burpee 66022	67.2	1.5	5.8	73.1	7.2	8.2	16.1	0.8
11.* Emperor Fordhook 50518	Woodruff 38810	66.8	1.5	8.2	74.9	7.7	8.0	16.0	1.0
6. Summer Pascal (Walth.Str.)	Ferry-Morse 15503	66.3	1.5	7.3	73.6	7.4	7.7	15.6	1.1
13.* Tall Fordhook	Eastern States V241-383	65.0	1.6	8.0	73.0	7.3	7.9	15.8	1.5
10. Summer Pascal 1259-19	Ferry-Morse 2304	59.1	1.3	5.4	68.5	6.4	8.1	15.7	0.5
3. Earligreen	Ferry-Morse 33089	58.4	1.5	6.6	65.0	11.0	6.4	16.4	0.9
4.* Cornell 619	Harris 359	57.2	1.4	7.8	65.0	8.5	9.2	16.2	1.8
19. Non-Bolting Green No. 12	Ferry-Morse 11832	47.7	1.2	6.6	54.3	9.0	7.6	16.4	3.7
* - Only 2 replications		LSD @ 5% Level		13.5					
1 - Yield per plot of 25 feet									
2 - Number of petioles 4" above butt.									
3 - Length from butt to first "node".									
4 - Length from butt to tip "node".									
5 - Blight Rating: 0 = no blight, 4 = heavy infection.									

W.N.B. VC-0055

[illegible]

Row No.	Variety and Lot Number	Source	Days to First Harvest	Marketable Yield / A		Average Length of Ears Husked	Average Diameter of Ears Husked	Percent of Ears Having given number of rows of kernels								Average Depth of Kernel	Color of Kernel	Ear Smut	Ear Worm	Flag leaves (1-5)	Length of Flags (1-5)	Shanks (1-5)	Tip Cover (1-3)	Husk Tightness (1-5)	Husk Color (1-5)	Stewart's Rating		General Uniformity (1-5)
				Dozens of Ears	Weight (tons)			Average Wt. of Ears Unhusked	8	10	12	14	16	18														
															Doz.											Tons	Lbs.	
	1. Seneca "60"	1134L	Robson	67	927	2.9	.51	6.9	1.6	25	40	35	-	-	-	8.3	MY	-	4.4	3	4	3	3	5	4	6.4	27.1	3
	2. Sun Up	1641-F	Harris	67	1064	3.6	.57	6.8	1.6	15	35	45	5	-	-	7.3	-	-	1.5	4	3	4	4	2	3	5.4	18.1	1
	3. Alphabest	35831	Michael-Leonard	69	1011	3.6	.60	8.1	1.5	55	40	5	-	-	-	8.0	DY	0.8	2.4	3	4	3	3	2	3	11.1	25.1	4
	4. Earliest Market King		Northrup-King	67	1056	3.5	.54	7.6	1.6	30	10	55	5	-	-	7.7	MY	0.8	4.5	3	2	4	3	3	3	8.6	21.5	3
	5. Seneca Dawn	11046	Robson	67	1289	5.8	.74	7.7	1.7	-	-	30	20	50	-	7.7	MY	-	2.0	4	2	3	3	3	3	5.0	11.2	5
	6. Washington	2340-L-2	Quaker Hill Farm	67	1189	4.2	.59	7.5	1.6	5	5	75	15	-	-	7.3	MY	2.0	2.6	4	4	4	3	3	3	9.5	20.1	2
	7. North Star	1652F	Harris	67	1218	4.4	.61	7.6	1.7	30	35	35	-	-	-	8.8	MY	-	-	3	2	5	3	2	2	10.2	24.0	3
	8. North Star	1619LF	Harris	67	1272	4.5	.59	7.9	1.7	35	25	40	-	-	-	9.3	MY	-	1.9	3	3	4	3	2	2	5.3	15.0	3
	9. Golden Rocket	3008/B27	Northrup-King	67	1089	3.5	.53	7.5	1.6	5	25	65	5	-	-	9.7	MY	0.8	-	3	4	3	2	4	3	8.3	28.7	3
	10. Spancross	43926	Woodruff	67	1074	3.5	.54	6.8	1.7	5	5	75	5	10	-	6.7	MY	1.6	3.9	3	3	3	3	3	3	7.1	24.9	1
	11. Golden Beauty	43953	Woodruff	67	1263	4.3	.57	7.4	1.7	-	10	70	20	-	-	8.3	MY	0.6	2.6	3	2	4	3	4	3	5.9	11.6	5
	12. Golden Beauty	1665	Harris	67	1264	4.2	.56	7.5	1.7	-	-	85	10	5	-	8.3	MY	0.6	0.6	3	2	5	3	4	3	4.0	9.0	4
	13. Early Sunrise	123a	Midwest	67	1129	3.5	.52	7.5	1.6	5	20	70	5	-	-	8.7	MY	5.2	1.5	3	3	4	2	3	3	4.1	23.9	3
	14. Early Hybrid 458	43928	Woodruff	67	1104	3.2	.49	6.7	1.5	25	20	55	-	-	-	6.7	MY	2.2	2.9	5	5	4	3	4	4	9.1	18.6	4
	15. New Earligold	43930	Woodruff	69	1421	4.6	.54	7.0	1.6	-	5	75	20	-	-	8.3	MY	0.6	0.6	3	2	4	3	4	3	4.6	14.6	3
	16. Marcross	43940	Woodruff	69	1345	4.8	.59	7.7	1.7	5	5	70	15	5	-	7.7	LY	2.3	-	5	4	4	3	2	3	7.3	13.9	3
	17. New Jersey Hybrid 106	42932	Woodruff	71	1286	5.7	.74	8.4	1.7	-	-	70	10	15	5	8.0	MY	2.6	-	4	3	4	1	4	3	9.7	16.0	3
	18. Seneca Golden	1214L	Robson	71	1336	5.4	.65	8.3	1.6	-	-	60	40	-	-	7.3	MY	1.1	-	3	2	5	3	5	3	4.7	13.7	4
	19. Carmel Cross	43902	Woodruff	69	1455	5.4	.62	8.1	1.6	-	5	45	25	25	-	6.7	LY	0.5	-	4	3	4	5	4	3	2.4	12.9	3
	20. Carmel Cross	1651-F	Harris	69	1394	5.5	.66	8.5	1.7	5	-	70	20	5	-	7.7	MY	0.6	2.8	2	2	4	5	5	1	2.4	6.8	5
			LSO @ 5% Level		336	1.1																						

* - Var. 32, 20-5%; Var. 39, 20-10%

SWEET CORN VARIETY TRIALS - UNIVERSITY FARM, COLUMBUS, OHIO - 1954

W.N.B. VC-155

Row No.	Variety and Lot Number	Source	Days to First Harvest	Marketable Yield / A.		Average Wt. of Ears Unhusked	Average Length of Ears Husked	Average Diameter of Ears Husked	Percent of Ears Having given number of rows of kernels						Average Depth of Kernel	Color of Kernel	Ear Smut	Ear Worm	Flag leaves (1-5)	Length of Flags (1-5)	Shanks (1-5)	Tip Cover (1-5)	Husk Tightness (1-5)	Husk Color (1-5)	Stewart's Rating		General Uniformity (1-5)	
				Dozens of Ears	Weight (tons)				8	10	12	14	16	18											Early	Late		
				Doz.	Tons	lbs	In.	In.	%	%	%	%	%	%	MM.		%	%						%	%			
	41. Improved Normandie 3652	Corneli	78	1407	6.8	.81	8.2	1.9	-	-	-	20	50	15*	9.7	MY	-	-	3	2	5	2	1	2	5.7	6.4	4	
	42. Plaingold 44050	Woodruff	78	1700	7.8	.76	7.9	1.7	-	-	45	55	-	-	7.7	MY	-	1.4	3	2	5	5	2	3	2.7	2.9	4	
	43. Ioana 43911	Woodruff	78	1602	6.8	.71	8.3	1.6	-	-	40	50	10	-	7.7	MY	-	0.5	4	3	4	3	4	3	0.7	3.0	3	
	44. Golden Glory 3007/B23	Northrup-King	76	1795	6.6	.61	8.1	1.6	-	5	60	35	-	-	8.7	MY	0.5	-	3	3	4	2	4	2	2.6	3.6	3	
	45. Frost Gold 44023	Woodruff	83	1919	7.7	.67	8.4	1.6	-	-	55	40	5	-	8.0	MY	-	-	4	4	4	5	5	3	5.4	9.5	3	
	46. Golden Cross Bantam 43937	Woodruff	81	1416	5.9	.70	8.1	1.6	-	-	50	30	20	-	7.3	MY	-	-	4	2	4	3	3	3	3.4	10.2	4	
	47. Golden Security 43927	Woodruff	82	2411	10.2	.71	8.1	1.6	-	-	-	5	55	35*	6.7	LY	-	-	4	2	4	5	4	3	3.3	1.5	3	
	48. Iosquaw 44500	Woodruff	81	1587	7.9	.83	8.2	1.8	-	-	-	5	26	53*	9.0	MY	0.7	-	3	1	3	2	2	2	3.1	17.0	5	
	49. Iosquaw 8633	Corneli	83	1496	7.4	.82	8.1	1.8	-	-	-	-	45	35*	9.3	MY	-	0.7	4	1	3	3	5	2	6.2	18.5	3	
	50. Wilt R. Golden Cross (W.S.) 340	Michael-Leonard	82	1693	7.4	.73	8.0	1.8	-	-	10	50	40	-	7.3	Y	-	-	3	2	3	3	4	3	5.5	2.1	4	
	51. Goldengainer 20643	Michael-Leonard	83	1758	8.3	.78	9.0	1.7	-	-	-	50	45	5	6.7	MY	-	-	3	3	3	3	5	3	9.0	12.5	4	
	52. Sweetangold (KVF 47-10) 2463	Corneli	84	1560	8.9	.95	8.8	1.7	-	-	10	10	65	10*	7.7	LY	-	1.1	4	2	3	3	3	3	2.4	0.0	3	
	53. Improved Flagship 5873	Corneli	81	1606	7.1	.74	8.2	1.6	-	-	35	55	10	-	8.0	MY	-	-	3	3	4	3	3	3	2.8	0.0	4	
	54. Paymaster 43912	Woodruff	83	2173	9.8	.75	8.0	1.8	-	-	45	30	25	-	8.0	LY	-	-	4	3	4	3	3	3	6.6	6.3	4	
	55. Aristogold Bantan No.1 37731	Michael-Leonard	81	1343	5.8	.72	8.1	1.7	-	-	-	15	55	20*	7.7	MY	0.6	1.2	3	2	4	4	3	2	3.8	0.5	4	
	56. Ioana W. S. 38131	Michael-Leonard	83	2036	9.2	.75	9.0	1.6	-	5	35	25	35	-	7.0	LY	-	0.4	3	3	4	3	4	3	5.4	0.6	2	
	57. Tenderfreezer --	Michael-Leonard	82	1400	6.0	.71	9.3	1.7	-	5	45	25	20	-*	7.3	Y	-	1.2	3	3	4	2	3	3	4.0	3.8	4	
	58. Prosperity 2363	Corneli	81	1722	7.4	.72	6.8	1.7	-	-	25	13	56	6	8.3	MY	1.2	0.6	4	3	4	4	3	3	6.8	11.5	3	
	59. KVF 50-15 2403	Corneli	82	2042	8.3	.68	8.9	1.5	-	-	50	30	20	-	7.3	MY	-	-	2	2	4	4	4	3	0.4	0.6	3	
	60. Victory Golden 44027	Woodruff	82	1704	8.5	.83	8.0	1.8	-	-	5	15	45	30*	6.7	LY	-	-	4	3	3	5	3	2	2.7	6.8	3	
	Var. 41, 20-10%; Var. 41, 22-5%;																											
	* -- Var. 47, 20-5%; Var. 48, 20-16%; Var. 49, 20-20%;																											
	Var. 52, 20-5%; Var. 55, 20-10%; Var. 57, 20-5%; Var. 60, 20-5%.																											

Var. 41, 20-10%; Var. 41, 22-5%;

* -- Var. 47, 20-5%; Var. 48, 20-16%; Var. 49, 20-20%;

Var. 52, 20-5%; Var. 55, 20-10%; Var. 57, 20-5%; Var. 60, 20-5%.

LSD @ 5% Level 336 1-1

SWEET CORN VARIETY TRIALS - UNIVERSITY FARM, COLUMBUS, OHIO - 1954

W.N.B. VC-155

Row No.	VARIETY and Lot Number	Source	Days to First Harvest	Marketable Yield/Acre		Average Weight of Ears Unhusked	Average Length of Ears Husked	Average Diameter of Ears Husked	Percent of Ears Having Given Number of Rows of Kernels						Average Depth of Kernel	Color of Kernel	Ear Smut	Ear Worm	Flag Leaves (1-5)	Length of Flags (1-5)	Shanks (1-5)	Tip Cover (1-5)	Husk Tightness (1-5)	Husk Color (1-5)	Stewart's Rating		General Uniformity (1-5)	
				Dozens of Ears	Weight (tons)				8	10	12	14	16	18											Early	Late		
				Dcz.	Tons	lbs	In.	In.	%	%	%	%	%	%	MM		%								%	%		
61.	Golden Harvest	43916	Woodruff	82	1821	8.1	.74	8.2	1.7	-	5	90	5	-	8.7	Y	-	-	4	4	4	3	3	3	5.9	7.3	5	
62.	Iogold #51	44043	Woodruff	76	1501	6.0	.67	7.5	1.6	-	-	35	35	30	8.0	MY	-	0.6	3	3	5	5	3	2	2.2	9.3	5	
63.	Tendermost W. S.	--	Michael-Leonard	83	1735	8.0	.77	9.1	1.7	-	-	10	55	35	8.4	-	-	0.5	4	3	4	2	5	3	4.3	7.6	3	
64.	Mehocross	20623	Michael-Leonard	83	1894	8.7	.77	8.6	1.7	*	-	-	40	45	15	7.4	LY	-	-	3	3	3	2	4	2	7.7	17.2	3
65.	Asgrow Golden 50	13536-250	Associated	82	1526	6.9	.75	8.8	1.8	-	-	-	5	55	25	7.8	MY	-	0.5	2	1	4	2	4	2	2.8	7.4	2
66.	Tons-e-gold	532	Northrup-King	82	1612	8.0	.83	8.1	1.9	-	-	-	15	65	20	8.3	MY	-	0.5	3	4	3	4	5	3	3.4	3.5	4
67.	Iochief	43948	Woodruff	81	1456	7.2	.82	8.5	1.75	*	-	-	20	55	20	10.0	MY	-	0.6	3	2	4	3	2	2	5.1	4.2	4
68.	Golden Hybrid 2057	43936	Woodruff	84	1786	9.9	.93	8.8	1.8	*	-	-	-	45	30	8.0	LY	-	-	3	2	3	4	5	2	2.1	1.5	3
69.	Gold Standard		Abbott & Cobb	78	1865	7.8	.69	8.1	1.6	-	-	5	35	40	20	8.0	MY	0.5	-	4	3	4	4	3	3	2.8	2.8	4
70.	Golden Bounty	3004/12	Northrup-King	82	1670	7.5	.75	8.9	1.7	-	-	75	20	5	-	7.7	Y	1.4	-	3	3	4	3	4	3	2.2	7.0	5
71.	Golden Bounty	520	Northrup-King	81	1562	6.8	.72	9.2	1.7	-	-	50	45	5	-	7.7	MY	0.5	-	3	3	4	2	3	2	2.9	6.7	3
72.	Golden Monarch	3050/B1	Northrup-King	78	1453	8.0	.92	8.8	1.8	-	-	10	15	65	10	9.0	MY	-	-	4	3	4	3	4	2	2.4	5.1	3
73.	NK 119	3052/B2	Northrup-King	76	1372	7.2	.97	7.7	1.9	*	-	-	-	12	22	8.8	LY	-	-	3	1	4	3	2	1	3.0	1.6	4
74.	Tenderchief	34139	Michael-Leonard	81	1572	7.2	.76	8.0	1.8	*	-	-	-	45	25	9.0	MY	-	2.0	3	1	4	3	2	2	2.1	0.5	3
75.	Tendermost (Regular)	339320	Michael-Leonard	83	1790	8.2	.76	8.4	1.7	*	-	5	15	55	15	9.0	MY	-	-	4	3	4	3	4	3	4.9	6.1	3
76.	Creamcross	2-193	Michael-Leonard	81	1592	8.2	.86	8.4	1.9	*	-	-	-	10	20	9.7	MY	-	-	3	2	4	2	2	3	8.3	7.4	3
77.	Yieldcross	20593	Michael-Leonard	82	1515	8.4	.92	9.2	1.9	*	-	-	-	15	40	8.3	MY	-	-	2	1	3	2	1	2	6.1	5.7	3
78.	Wilt R. Tendermost	34633	Michael-Leonard	83	1383	5.5	.66	7.9	1.7	*	-	-	5	45	45	9.0	LY	-	-	2	1	4	3	4	3	0.8	1.1	4
79.	Longchief	22410	Michael-Leonard	84	1537	9.6	1.04	8.6	2.1	*	-	-	-	10	35	10.3	Y	-	1.2	2	1	3	5	4	3	5.6	1.2	4
80.	Golden Hybrid 2474	41548	Woodruff	84	1549	9.2	.99	8.2	1.9	*	-	-	-	25	45	9.3	MY	0.5	0.5	4	2	4	3	3	2	4.3	1.1	3
* -- Var. 65, 20-15%; Var. 67, 20-5%; Var. 68, 20-25%; Var. 73 20-50%, 22-10%, 24-6%; Var. 74, 20-25%, 22-5%; Var. 75, 20-10%; Var. 76, 20-40%, 22-25%, 24-5%; Var. 77, 20-35%, 22-10%; Var. 78, 20-5%; Var. 79, 20-40%, 22-15%; Var. 80, 20-30%																												

* -- Var. 65, 20-15%; Var. 67, 20-5%; Var. 68, 20-25%; Var. 73 20-50%, 22-10%, 24-6%;

Var. 74, 20-25%, 22-5%; Var. 75, 20-10%; Var. 76, 20-40%, 22-25%, 24-5%; Var. 77, 20-35%, 22-10%; Var. 78, 20-5%; Var. 79, 20-40%, 22-15%; Var. 80, 20-30%

* - Var. 27, 20-3%; Var. 32, 20-18%.

SWEET CORN VARIETY TRIALS, NORTHWESTERN SUBSTATION, HOYTVILLE, OHIO - 1954

W.N.B. VC-655

Row No.	Variety and Lot Number			Source	Days to First Harvest	Marketable Yield/Acre		Average Weight of Ears Unhusked	Average Length of Ears Husked	Average Diameter of Ears Husked	Percent of Ears Having Given Number of Rows of Kernels						Average Depth of Kernel	Color of Kernel	Ear Smut	Ear Worm	Flag Leaves (1-5)	Length of Flags (1-5)	Shanks (1-5)	Tip Cover (1-5)	Husk Tightness (1-5)	Husk Color (1-5)	Stewart's Infection	General Uniformity (1-5)
						Dozens of Ears	Weight (tons)				Percent of Ears Having Given Number of Rows of Kernels																	
											8	10	12	14	16	18												
				doz	tons	lbs	in.	in.	%	%	%	%	%	%	mm		%	%							%			
15.	New Earligold	43930	Woodruff	63	1350	3.9	.48	7.2	1.6	5	5	75	10	5	-	7.8	MY	0.7	0.7	4	3	5	5	3	3	2.8	3	
17.	New Jersey Hybrid 106	43932	Woodruff	63	1342	4.5	.56	8.6	1.6	-	-	55	35	10	-	8.0	MY	-	11.9	5	3	5	4	3	3	5.6	1	
19.	Carmelcross	43902	Woodruff	70	1457	5.6	.64	8.0	1.7	-	-	80	5	15	-	8.7	MY	1.3	12.7	5	3	4	5	2	3	7.3	5	
20.	Carmelcross	1651-F	Harris	70	1517	5.8	.64	8.1	1.8	-	-	70	30	-	-	8.7	MY	-	25.6	5	2	5	5	2	3	1.5	5	
23.	Gold Rush	3462	Corneli	70	1231	4.8	.65	8.2	1.7	-	-	65	35	-	-	8.7	MY	-	20.0	5	3	5	5	3	4	7.6	5	
27.	Seneca Arrow	1234-L	Robson	70	1585	5.5	.58	7.8	1.7	-	-	47	41	12	-	7.7	DY	0.6	18.6	5	2	4	5	4	3	2.3	3	
31.	New Jersey Hybrid 101	43931	Woodruff	70	1590	6.2	.65	8.9	1.6	-	-	35	50	15	-	7.3	LY	0.6	3.1	5	3	4	4	4	2	3.9	3	
22.	Early Shipper	20473	Michael-Leonard	74	1616	5.7	.59	9.6	1.5	-	58	42	-	-	-	7.7	DY	3.7	7.4	4	3	5	2	5	3	3.3	-	
62.	Iogold #51	44043	Woodruff	74	1819	6.4	.59	7.5	1.6	-	-	40	50	10	-	7.3	MY	-	6.7	5	3	5	5	3	3	8.5	3	
26.	Asgrow Golden 25	13537-220	Associated	74	1851	7.1	.64	8.8	1.6	-	-	15	60	25	-	8.3	MY	0.5	4.8	5	4	3	4	2	4	3.2	5	
29.	Hybrid PT-51	2283	Corneli	74	1633	7.0	.72	9.2	1.6	-	-	55	25	20	-	7.3	MY	1.8	7.2	5	4	3	5	5	4	2.3	5	
33.	Seneca Warrior	14041	Robson	74	1546	6.3	.67	8.1	1.7	-	-	30	35	35	-	7.3	MY	-	7.5	5	4	3	5	5	3	0.7	3	
42.	Plaingold	44050	Woodruff	80	1652	7.8	.78	7.9	1.7	-	10	60	25	5	-	8.3	LY	0.6	12.9	5	5	4	5	5	4	4.0	3	
43.	Ioana	43911	Woodruff	80	1705	7.7	.75	8.8	1.7	-	-	70	30	-	-	8.0	MY	2.3	19.9	5	5	5	5	5	4	1.1	5	
45.	Frost Gold	44023	Woodruff	80	1661	6.7	.68	8.1	1.5	-	-	45	45	10	-	8.0	LY	0.6	8.1	5	5	4	5	5	2	2.3	5	
46.	Golden Cross Bantam	43937	Woodruff	80	1541	6.7	.73	8.2	1.6	-	5	60	35	-	-	7.8	MY	-	10.3	5	5	4	4	3	3	10.7	3	
47.	Golden Security	43927	Woodruff	80	2122	9.1	.71	7.9	1.6	-	-	6	28	44	22	8.0	MY	-	9.5	5	5	3	5	5	4	4.8	5	
48.	Iosquaw	44500	Woodruff	80	1509	7.1	.78	7.9	1.8	*	-	-	10	35	45	8.7	LY	0.9	13.0	4	2	3	3	5	2	7.0	3	
50.	Wilt R. Golden Cross	340	Michael-Leonard	80	1565	6.9	.74	7.9	1.8	-	-	31	63	6	-	8.3	DY	0.6	21.7	5	4	4	5	5	4	4.3	5	
52.	Sweetangold	2463	Corneli	80	1784	8.7	.82	9.2	1.7	-	-	-	15	80	5	7.7	LY	-	16.1	5	3	4	3	4	4	10.9	1	
* - Variety 48, 20-10%.			450 @ 5% level		204 @ 0.9																							

* - Variety 48, 20-10%.

LSD @ 5% Level

204 0.9

SWEET CORN VARIETY TRIALS, NORTHWESTERN SUBSTATION, HOYTVILLE, OHIO - 1954

W.N.B. VC-655

Row No.	Variety and Lct Number	Source	Days to First Harvest	Marketable Yield/Acre		Average Weight of Ears Unhusked	Average Length of Ears Husked	Average Diameter of Ears Husked	Percent of Ears Having Given Number of Rows of Kernels						Average Depth of Kernel	Color of Kernel	Ear Smut	Ear Worm	Flag Leaves (1-5)	Length of Flags (1-5)	Shanks (1-5)	Tip Cover (1-5)	Husk Tightness (1-5)	Husk Color (1-5)	Stewart's Infection	General Uniformity (1-5)
				Dozens of Ears	Weight (tons)				8	10	12	14	16	18												
				doz	tons	lbs	in.	in.	%	%	%	%	%	%	mm		%	%							%	
54.	Paymaster 43912	Woodruff	80	2104	8.7	.69	7.8	1.7	-	-	75	25	-	-	7.3	LY	-	10.3	5	4	5	5	4	4	3.1	3
55.	Aristogold Bantam No. 1 37731	Michael-Leonard	80	1596	6.6	.69	8.0	1.7	-	-	5	55	30	10	8.3	MY	-	13.3	5	4	4	5	4	3	8.3	5
56.	Ioana W. S. 38131	Michael-Leonard	80	1508	6.2	.69	8.9	1.5	-	8	62	30	-	-	7.8	MY	0.6	10.8	5	4	5	4	4	3	4.8	3
58.	Prosperity 3363	Corneli	80	1898	8.1	.71	8.2	1.7	-	-	15	40	40	5	8.3	MY	0.6	7.6	5	5	5	5	5	4	2.6	3
60.	Victory Golden 44027	Woodruff	80	1584	8.0	.84	8.3	1.8	-	-	5	20	65	10	7.7	MY	-	8.9	5	5	4	5	5	2	5.0	5
65.	Asgrow Golden 50 13536-250	Associated	80	1629	7.5	.77	8.5	1.7	-	-	-	35	55	10	8.3	DY	-	17.4	4	3	5	3	4	4	2.7	5
67.	Iochief 43948	Woodruff	80	1563	7.2	.77	8.3	1.7	-	-	-	5	85	10	9.3	MY	0.6	8.1	5	2	5	3	2	2	6.0	5
70.	Golden Bounty 3004/12	Northrup-King	80	1524	6.7	.72	8.9	1.7	-	14	86	-	-	-	9.0	MY	0.7	12.3	5	5	5	3	4	3	2.6	5
72.	Golden Monarch 3050/BL	Northrup-King	80	1447	7.9	.91	8.8	1.9	-	-	-	40	55	5	9.3	MY	-	22.8	5	5	4	3	5	3	1.9	5
74.	Tenderchief 34139	Michael-Leonard	80	1642	7.2	.73	8.4	1.7	*	-	-	10	60	20	8.3	MY	-	8.3	3	1	5	4	3	1	2.9	5
76.	Creamcross 20193	Michael-Leonard	80	1615	7.7	.79	8.7	1.9	*	-	-	-	20	45	10.3	LY	0.6	14.8	4	3	5	2	1	2	2.4	1
81.	Golden Hybrid 3021 43984	Woodruff	80	1527	6.7	.73	8.4	1.7	-	5	45	45	5	-	7.7	MY	0.6	12.0	5	5	5	5	4	3	3.2	3
84.	Seneca Chief 13341	Robson	80	1759	6.1	.58	8.7	1.6	-	5	65	30	-	-	8.0	MY	1.2	11.8	5	5	5	5	5	2	3.4	5
85.	Double Duty 1646-LF	Harris	80	1632	6.8	.69	8.1	1.6	-	-	25	30	35	10	7.7	LY	0.6	12.0	5	4	4	5	5	3	2.7	5
86.	Tri-State 35631	Michael-Leonard	80	1775	6.6	.62	8.9	1.5	-	7	43	50	-	-	7.0	LY	-	10.0	4	3	5	4	3	2	4.1	1
89.	Golden Hybrid XP 103 W52703	Associated	80	1670	7.5	.74	7.6	1.8	-	-	5	45	45	5	9.0	MY	-	11.2	5	4	4	5	4	2	2.9	5
90.	Seneca Market 1453L	Robson	80	1662	7.4	.74	8.5	1.6	-	15	35	45	5	-	8.3	DY	1.2	14.0	5	5	5	4	3	4	4.6	3
91.	Aristocross 20253	Michael-Leonard	80	1565	7.8	.83	9.5	1.7	-	-	-	10	80	10	8.0	MY	-	8.8	4	2	4	2	5	5	7.3	3
51.	Goldengainer 20643	Michael-Leonard	85	1546	7.1	.77	8.9	1.8	-	-	-	40	50	10	9.3	MY	0.6	12.4	5	4	5	4	5	4	2.9	5
64.	Melocross 20623	Michael-Leonard	85	1711	7.7	.75	8.4	1.8	*	-	10	25	35	25	9.7	MY	0.6	20.0	5	3	5	3	3	3	6.0	3

* Variety ~~30~~⁷⁴, 20-10%; Var. ~~31~~⁷⁶, 20-25%, 22-10%; Var. ~~40~~⁶⁴, 20-5%.

LSD @ 5% Level

204 0.9

* Variety ⁷⁷~~43~~, 20-10%, 22-10%; Var. ⁷⁷~~45~~, 20-15%; Var. ⁸⁰~~46~~, 20-5%, 22-5%.

STAKED TOMATO VARIETY TRIALS - 1954
OAES, Columbus, Ohio

W.M.B. VC.- 555

VARIETY	SOURCE	YIELD PER ACRE								Earliness	Cracked Fruits	Average Weight per Fruit	
		Early to Aug. 31				Total to Sept. 20							
		No. 1	No. 2	Total	% No. 1	No. 1	No. 2	Total	% No. 1				Early Yield Total Yield
		lbs	lbs	lbs	%	lbs	lbs	lbs	%				%
5. Queens	Stokes	30,928	12,197	43,125	71.7	49,550	15,500	65,050	76.2	66.2	48.5	0.288	
10. Wisconsin 55	Woodruff	30,129	11,725	41,854	72.0	46,028	16,335	62,363	73.8	67.1	55.6	0.376	
6. Early Giant Hybrid	Burrell	24,684	17,642	42,326	58.3	35,828	20,727	56,555	63.4	74.8	65.4	0.374	
2. O.S.U. 26-5	O.S.U.	23,921	11,369	35,290	67.8	44,431	15,427	59,859	74.2	58.9	29.5	0.271	
9. Vancross F ₂	Harris	23,014	20,437	43,451	53.0	34,267	24,720	58,987	58.1	73.6	81.5	0.296	
7. Stokesdale	Stokes	22,179	15,428	37,607	59.0	36,227	19,493	55,720	65.0	67.4	75.8	0.295	
1. O.S.U. 3-1	O.S.U.	21,272	10,267	31,509	67.5	38,079	11,341	49,419	77.0	63.7	32.0	0.290	
3. Pritchard	Midwest	19,820	12,161	31,981	62.0	29,984	15,754	45,738	65.6	69.9	59.5	0.243	
8. Early Red	O.S.U.	19,820	13,939	33,759	58.7	33,686	17,061	50,747	66.4	66.5	68.4	0.282	
4. Early Red Chief	Midwest	19,747	16,988	36,735	53.7	33,977	20,001	53,978	62.9	68.0	71.6	0.294	
	LSDE 5% level			6,111				7,274					

Comments: Plants set May 20. Spacing 18" in row; 48" between rows. Plot size 20 plants, replicated 6 times. Fertilizer 1000 pounds per acre 5-10-10 drilled. Under irrigation. Pruned to double stem above first cluster. First harvest on July 14, 1954.

STAKED TOMATO VARIETY TRIALS - 1954
OAES, Columbus, Ohio

W.N.P. VC-755

VARIETY		SOURCE	YIELD PER ACRE								Earliness Early Yield Total Yield	Radial Cracked Fruits	Average Weight per Fruit
			Early to Aug. 31				Total to Sept. 20						
			No. 1	No. 2	Total	% No. 1	No. 1	No. 2	Total	% No. 1			
			lbs	lbs	lbs	%	lbs	lbs	lbs	%			
11* Moreton Hybrid	871	Harris	22,542	12,305	34,847	64.7	32,706	17,932	50,638	64.6	68.8	51.5	.303
12* Trellis Hybrid	886	Harris	18,041	19,566	37,607	48.0	25,628	19,566	45,194	56.7	83.2	20.3	.159
13. Burpee Hybrid	1132	Burpee	22,470	13,104	35,574	63.2	33,904	15,900	49,804	68.1	71.4	48.8	.323
14. Early Giant Hybrid	13V2	Burrell	20,800	10,091	30,891	67.3	28,895	13,540	42,435	68.1	72.8	40.5	.387
15* Burpees Big Boy	6123	Burpee	7,587	6,008	13,595	55.8	24,974	10,418	35,392	70.6	38.4	58.1	.363
16. Fordhook Hybrid	1121	Burpee	12,015	16,008	28,023	75.1	22,143	20,873	43,016	51.5	65.1	38.2	.193
17. Burpees Calcross	1130	Burpee	9,874	5,992	15,866	62.0	17,279	15,428	32,707	52.8	52.8	59.3	.287
18. Burpeeana Early Hybrid	1133	Burpee	15,754	13,467	29,221	53.3	21,344	17,388	38,732	55.6	76.2	25.4	.199
19. Balls Extra Early Hyb	3817	Ball	13,504	14,665	28,169	48.0	18,186	17,351	35,537	51.2	79.3	36.7	.257
20. Vaughan's Early Hyb	T-44	Vaughan	17,714	16,517	34,231	51.7	24,430	21,236	45,666	53.5	75.0	45.4	.238
21* Eastern State Hyb	V-58-2	E.S.F. EX.	15,972	12,669	28,641	55.8	17,896	13,867	31,763	56.3	90.2	47.6	.252
22* Clinton Hybrid	6131	Burpee	12,959	12,559	25,518	50.8	29,839	19,312	49,151	60.7	51.9	52.9	.306
23. Early Giant Hybrid	23-54	Burpee	12,705	18,041	30,746	41.3	23,268	22,252	45,520	51.1	67.5	54.2	.327
24* Stokes Cross No. 1 (F ₂)	54	Stokes	17,061	12,160	29,221	58.4	33,396	16,734	50,130	66.6	58.3	41.4	.280
25* Stokes Cross No. 2 (F ₂)	53	Stokes	16,262	10,490	26,752	60.8	33,216	14,484	47,700	69.6	56.1	43.9	.282
26. Stokes Cross No. 3 (F ₂)	53	Stokes	15,572	12,632	28,204	55.2	25,737	18,005	43,742	58.8	64.5	40.7	.283
27* Foremost E.21 (F ₂)	35361	Ferry-Morse	23,486	11,906	35,392	66.4	38,587	15,246	53,833	71.7	65.7	39.5	.335
28. Burpees Sunnybrook (F ₂)	1129	Burpee	15,972	10,600	26,572	60.1	26,826	14,193	41,019	65.4	64.8	41.9	.280
29* Harvest Cross (F ₂)	864	Harris	16,444	9,039	25,483	64.5	31,871	17,714	49,585	64.3	51.4	40.2	.292
30* Cornelieftwo (F ₂)	25261	Corneli	25,301	6,207	31,508	80.3	44,286	10,273	54,559	81.2	57.8	27.5	.288

* - Two replications, all others single plot.

COMMENTS: Plants set May 20. Spacing 18" in row; 48" between rows. Plot size 20 plants. Fertilizer 1000 pounds per acre, 5-10-10 drilled. Under irrigation. Pruned to double stem above first cluster. First harvest on July 14, 1954.

STAKED TOMATO VARIETY TRIALS - 1954
 OAES, Columbus, Ohio

W.N.B. VC-755

VARIETY		SOURCE	YIELD PER ACRE								Earliness Early Yield Total Yield	Radial Cracked Fruits	Average Weight per Fruit
			Early to Aug. 31				Total to Sept. 20						
			No. 1	No. 2	Total	% No. 1	No. 1	No. 2	Total	% No. 1			
			lbs	lbs	lbs	%	lbs	lbs	lbs	%			
31. Grothen's Globe	36V33	Burrell	12,887	15,100	27,987	46.0	25,265	20,074	45,339	55.7	61.7	31.6	.262
32. Cornet	853	Harris	10,272	11,326	21,598	47.6	15,609	17,896	33,505	46.6	64.5	45.9	.172
33* Heinz Marketer	Trial 53	Heinz	12,415	3,630	16,045	77.4	38,442	7,514	45,956	83.6	34.9	12.9	.265
34. Lakeland	33776	Woodruff	18,949	14,520	33,469	56.6	30,056	18,114	48,170	62.4	69.5	46.9	.265
35* Pearson C-65	1078	Burpee	13,322	5,264	18,586	71.7	25,446	8,714	34,160	74.5	54.4	33.0	.204
36. Manalucie	T-20	Vaughan	13,576	9,220	22,796	59.6	34,703	13,104	47,807	72.6	47.7	32.8	.363
37. Illinois 125A	79-52	Huelsen	16,734	7,986	24,720	69.7	33,832	13,213	47,045	71.9	52.5	40.7	.275
38. Firesteel	38668	Woodruff	6,207	7,877	14,084	44.1	8,168	9,220	17,388	47.0	81.0	46.4	.246
39. Gills All Purpose	3218	Gill Brothers	16,915	9,946	26,861	63.0	23,232	15,028	38,260	60.7	70.2	55.5	.232
40. Seattle Best of All	0550	Gill Brothers	15,319	9,402	24,721	62.0	19,566	13,685	33,251	58.8	74.3	7.4	.117
41* Long Red	7-5211	Woodruff	17,025	9,293	26,318	64.7	33,287	12,378	45,665	72.9	57.6	20.5	.288
42. Improved Pepper	1445	Gill Brothers	3,303	5,844	9,147	36.1	12,306	12,632	24,938	49.3	36.7	37.2	.190
43. Master Marglobe	*GS-54	Stokes	20,364	8,966	29,330	69.4	36,227	15,101	51,328	70.6	57.1	46.6	.292
44* Valiant	PGS-54	Stokes	13,721	14,737	28,458	48.2	24,176	20,292	44,468	54.4	64.0	37.8	.252
45. Trellis 22	893-1230	Harris	25,991	8,894	34,885	74.5	39,966	15,209	55,175	72.4	63.2	25.6	.201
46. OAES	234-53	OAES	8,894	13,467	22,361	39.8	16,553	19,784	36,337	45.6	61.5	55.7	.286
47. OAES	621-53	OAES	13,503	11,072	24,575	54.9	24,031	17,860	41,891	57.4	58.7	36.4	.184
48. OAES	650-53	OAES	4,937	8,639	13,576	36.4	15,936	13,794	29,730	53.6	45.7	35.8	.185
49. OAES	629-53	OAES	15,936	8,422	24,358	65.4	22,542	15,536	38,078	59.2	64.0	21.9	.125
50. R.S.	6-6-1-2-53	Hoffman	19,820	7,369	27,189	72.9	37,788	12,524	50,312	75.1	54.0	35.6	.269

* - Two replications, all others single plot.

COMMENTS: Plants set May 20. Spacing 18" in row; 48" between rows. Plot size 20 plants. Fertilizer 1000 pounds per acre, 5-10-10 drilled. Under irrigation. Pruned to double stem above first cluster. First harvest on July 14, 1954.

* - Two replications, all others single plot.

COMMENTS: Plants set May 20. Spacing 18" in row; 48" between rows. Plot size 20 plants. Fertilizer 1000 pounds per acre, 5-10-10 drilled. Under irrigation. Pruned to double stem above first cluster. First harvest on July 14, 1954.

STAKED TOMATO VARIETY TRIALS - 1954
 OAES, Marietta, Ohio

(Six Replications)

W.M.B. VC-955

Variety ^a and Lot Number	Source	Early Yield to July 27							Season's Yield to August 18					
		Pounds of Marketable Fruit per Acre				Culls (lbs)	Average Fruit Size		Pounds of Marketable Fruit per Acre				Culls (lbs)	Average Fruit Size
		No. 1	No. 2	No. 3	Total				No. 1	No. 2	No. 3	Total		
12. Marietta No. 2	---	H. J. Heinz	8,518 _b (42.2)	9,970 (49.4)	1,694 (8.4)	20,182 _c (43.7)	97	0.433	18,876 _d (40.9)	21,877 (47.4)	5,372 (11.7)	46,125	242	0.387
3. Pritchard	3673	Midwest	7,454 (38.0)	8,083 (41.2)	4,065 (20.8)	19,602 (35.9)	145	0.331	22,700 (41.5)	21,780 (39.8)	10,116 (18.7)	54,596	484	0.297
11. Marietta No. 1	---	OAES	6,147 (30.9)	10,696 (53.7)	3,049 (15.4)	19,892 (42.7)	339	0.388	16,020 (34.4)	20,473 (44.0)	10,019 (21.6)	46,512	1,016	0.347
2. O.S.U. 26-5	141-53	OAES	4,501 (25.2)	9,147 (51.2)	4,210 (23.6)	17,858 (41.6)	290	0.486	11,084 (25.8)	22,458 (52.4)	9,293 (21.8)	42,835	823	0.466
4. Early Red Chief	383	Midwest	4,211 (17.4)	14,278 (59.0)	5,711 (23.6)	24,200 (56.3)	435	0.355	6,486 (15.0)	21,199 (49.3)	15,294 (35.7)	42,979	1,113	0.345
5. Queens	PGS-54	Stokes	4,211 (20.9)	10,938 (54.3)	4,985 (24.8)	20,134 (49.8)	532	0.374	8,180 (20.2)	18,344 (45.4)	13,842 (34.4)	40,366	1,307	0.345
6. Early Giant Hybrid (F ₁)	13V2	Burrell	3,146 (13.7)	14,472 (63.3)	5,227 (23.0)	22,845 (55.2)	97	0.465	7,502 (18.1)	23,232 (56.1)	10,648 (25.8)	41,382	532	0.423
10. Hoffman's R.S.6-6-1-2	---	OAES	2,904 (16.2)	7,986 (44.5)	7,018 (39.3)	17,908 (45.2)	387	0.438	5,953 (15.0)	16,408 (41.4)	17,182 (43.6)	39,543	823	0.395
9. Vancross (F ₂)	891	Harris	2,807 (11.2)	11,035 (44.2)	11,084 (44.6)	24,926 (60.8)	678	0.361	5,469 (13.3)	16,117 (39.3)	19,408 (47.4)	40,994	1,694	0.337

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FIELD TOMATO VARIETY TRIALS - 1954
Northwestern Substation, Hoytville, Ohio

(Five Replications)

W.N.B. VC-1155

Variety and Lot Number		Source	Yield Per Acre				Percent of Fruits Grading			Cracked Fruits	Average Fruit Weight
			Early to Sept. 9	Total to October 2							
			No.1 plus No.2	U.S.No.1	U.S.No.2	No.1 plus 2	U.S. No.1	U.S. No. 2	Culls		
			tons	tons	tons	tons	%	%	%		
15. W. H. Brookston	53-Bulk	Alexander	4.01	22.32	1.55	23.87	90.4	6.3	3.3	14.93	.308
2. Red Jacket	7-35-53	Woodruff	7.51	20.32	.87	21.19	94.0	4.0	2.0	14.20	.278
14. Kopiah	270-53	Mississippi	3.94	19.92	.49	20.41	95.7	2.4	2.0	13.81	.282
7. Vancross	891-53	Harris	6.18	18.82	1.30	20.12	90.9	6.3	2.8	23.90	.290
6. Early Red Chief	383-53	Midwest	7.41	17.56	.55	18.11	94.7	3.0	2.4	16.40	.295
8. Urbana	5963	Corneli	5.18	17.38	.58	17.96	94.8	3.2	2.1	14.10	.257
13. Purdue (F ₂)	54	Quaker-Maid	2.36	17.07	.73	17.80	94.0	4.0	2.0	13.07	.282
3. Wisconsin 55	7-913-1-49	Woodruff	3.38	16.19	1.25	17.44	89.8	6.9	3.3	14.70	.367
1. Redtop	883-53	Harris	4.14	16.73	.55	17.28	96.5	3.2	0.8	0.50	.122
10. Stokes-cross No. 5	--	Stokes	2.62	16.47	.64	17.11	94.3	3.7	2.0	17.90	.297
5. Early Red	R-2-2 SP 52	OAES	7.17	16.49	.57	17.06	94.7	3.3	2.1	16.00	.303
16. Homestead	210-53	OAES	1.71	14.49	.81	15.30	92.4	5.2	2.5	15.19	.305
9. Kokomo	51	Purdue	1.34	14.39	.48	14.87	95.3	3.2	2.2	13.70	.285
19. Purdue 1361	54	Purdue	1.79	13.72	.94	14.66	91.2	6.3	2.5	18.17	.312
12. Pearson C-65	1078-52	Burpee	1.61	13.18	.94	14.12	91.1	6.5	2.4	10.31	.319
17. Illinois 125A	79-52	Huelssen	2.14	13.10	.64	13.74	93.0	4.5	2.4	14.73	.321
4. Improved Garden State	257-53	OAES	1.70	12.74	.73	13.47	91.7	5.3	3.1	21.90	.276
13. Chesapeake	6861	Burpee	0.71	11.65	1.38	13.03	88.2	10.4	1.4	4.76	.337
20. Heinz Marketer	---	Heinz	.99	11.82	.37	12.19	95.0	3.0	2.0	7.49	.289
11. O.S.U. 9-1-26	SP 52 N.W.	OAES	.61	7.12	.45	7.53	92.2	5.8	1.9	14.87	.278
		LSD @ 5% Level	1.04			3.60					
COMMENTS: Plants set June 10. Spacing 6' between rows, plants 48" in row. Plot size 20 plants, replicated six times. Fertilizer 1000 lbs 5-10-10 drilled in. No irrigation. First harvest on August 19.											

FIELD TOMATO VARIETY TRIALS - 1954
Northwestern Substation, Hoytville, Ohio

(Two Replications)

W.N.B. VC-1155

Variety and Lot Number		Source	Yield Per Acre				Percent of Fruits Grading			Cracked Fruits	Average Fruit Weight
			Early to Sept. 9	Total to October 2							
			No.1 plus No.2 tons	U.S. No.1 tons	U.S. No. 2 tons	No.1 plus 2 tons	U.S. No.1 %	U.S. No.2 %	Culls %		
30. Long Red	7-521-1	Woodruff	6.42	23.39	.96	24.35	94.6	3.9	1.5	13.20	.310
32. Harvestcross (F ₂)	864-53	Harris	4.30	20.87	1.30	22.17	91.9	5.7	2.3	14.01	.280
22. Illinois 97A	52	Huelson	2.62	20.29	.81	21.10	94.3	3.8	2.0	15.87	.316
23. Manasota	7-218 SS	Woodruff	3.72	20.22	.66	20.88	95.3	3.1	1.6	10.12	.276
21. Boone	53	Purdue	3.23	19.10	1.78	20.88	89.3	8.3	2.4	5.05	.328
33. Cornell 50-442	---	Cornell	2.54	19.54	.78	20.32	94.9	3.8	1.3	13.41	.275
35. Keystone 40-46	2527-1	Corneli	2.89	19.27	1.12	20.29	92.8	5.4	2.3	10.33	.312
36. Corneli two (F ₂)	2526-1	Corneli	2.02	18.32	1.06	19.38	92.9	5.4	1.7	5.66	.256
34. Heinz (F ₂)	---	Heinz	3.98	18.20	.76	18.96	94.1	3.9	2.0	14.41	.272
29. Ace	CSC-1-53	W. Robins	1.96	16.59	1.19	17.78	91.8	6.5	1.7	4.92	.426
37. Rutgers	41365	Woodruff	1.03	17.30	.35	17.65	96.6	2.0	1.4	4.47	.304
28. C.S.C. Rc 14	53	W. Robins	3.46	16.04	1.55	17.59	89.7	8.7	1.6	7.09	.383
25. R.S. 6-6-1-2	53-Bulk	I.C. Hoffman	2.32	16.71	.32	17.03	96.5	1.8	1.6	7.29	.277
40. Manalucie	T-20	Vaughan	.65	14.88	1.17	16.05	90.8	7.1	2.1	5.94	.376
27. Queens	877-53	Harris	1.83	15.00	.25	15.25	96.3	1.6	2.1	8.98	.311
26. Firesteel	38668-53	Woodruff	3.81	12.98	1.99	14.97	82.9	12.7	4.4	15.09	.291
24. Early Pak	99 VI53	Burrell	1.42	13.08	.53	13.61	94.6	3.8	1.5	6.78	.278
31. Jefferson	7648-A	Associated	0.68	12.94	.55	13.49	94.2	4.0	1.7	28.23	.250
39. Fireball	861-54	Harris	3.01	4.32	.58	4.90	84.7	11.4	3.9	13.27	.177